

**PFAS PROJECT REPORT 8/9/17**  
**Technical Assistance to North Carolina**  
**in responding to public health concern over GenX in the Cape Fear River Basin**

**Goal:** Assist states in the identification of and potential exposures to PFAS. Provide technical assistance on sampling and analysis, health impacts, treatment technology, remediation and risk communication.

**Description:** EPA OSCPP/OPPT, ORD, Region 4, and OW are coordinating to provide urgent technical assistance to the North Carolina Department of Environmental Quality and Department of Health (DOH) on quantifying GenX (and other novel PFAS) and applying best available science in developing a human health risk assessment and provisional drinking water value for the chemical, GenX, identified in Cape Fear River water (a source of drinking water in North Carolina).

**Expected Accomplishment:** OPPT and OW collaborated with NC DOH on a review of GenX technical data (including animal toxicity test data, pharmacokinetics data and bioaccumulation data) for a risk assessment and development of a provisional drinking water value to establish a public health goal for the chemical. ORD (and another private lab) are applying state-of-the-art analytical methods to analyze sample splits to measure the concentration of GenX in several sampling locations including the Chemours facility outfall, nearby groundwater wells and downstream drinking water plants. In addition, the sampling will be used to identify other PFAS analytes that are present in addition to GenX. Thus far, sampling has confirmed that Chemours' efforts to minimize the release of GenX to the Cape Fear River are effective. Region 4 conducted a TSCA inspection of the Chemours facility where GenX is produced and used, and accompanied NC DEQ staff to collect information for inclusion in the new NPDES permit that will be issued to the facility by NC. OPPT is reviewing the TSCA Consent Order for GenX and related compounds and may update the EPA risk assessment based on new information. Sampling results will provide information on the amount of GenX found in effluent from the Chemours facility, in Cape Fear River water, and in finished drinking water. Sampling results and other information collected will inform NPDES permit modification, possible enforcement action and contribute to development of a risk assessment for GenX and other related chemicals.

**Milestone:** Started

**Completion date:** FY18

**Working group:** None

**EPA leads:** OSCPP/OPPT – Tala Henry and Catherine Aubee (Risk Assessment Division), and Maria Doa (Chemical Control Division); Region 4 – Becky Allenbach (Water Protection Division) and Carol Kemker (Air Division); ORD/NERL – Tim Buckley; OW – Betsy Behl and Jamie Strong (Health & Ecological Criteria Division)